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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,123	06/13/2007	Andrew F. Barrett	20559-0433	1759
SHUTTLEWORTH & INGERSOLL, P.L.C. 115 3RD STREET SE, SUITE 500 P.O. BOX 2107 CEDAR RAPIDS, IA 52406			EXAMINER	
			OLSON, LARS A	
			ART UNIT	PAPER NUMBER
			3617	
			NOTIFICATION DATE	DELIVERY MODE
			11/18/2009	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

deanna@shuttleworthlaw.com kathyi@shuttleworthlaw.com uspto@shuttleworthlaw.com

		Application No.	Applicant(s)			
Office Action Summary		10/581,123	BARRETT ET AL.			
		Examiner	Art Unit			
		Lars A. Olson	3617			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on <u>05 O</u>	ctober 2009				
· ·	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٥/ك	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	closed in accordance with the practice under E	in parte Quayre, 1000 C.B. 11, 40	0.0.2.210.			
Dispositi	on of Claims					
4)🛛	Claim(s) <u>1-59</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)🛛	∑ Claim(s) <u>1-33 and 44-59</u> is/are allowed.					
6)⊠	☑ Claim(s) <u>34-43</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers						
9) The specification is objected to by the Examiner.						
-	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)□	The oath or declaration is objected to by the Ex		, ,			
Priority under 35 U.S.C. § 119						
· .	2) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
aji	<u> </u>					
	·					
	<ul> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>					
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
A44- 1	W-3					
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da				
3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Uther:						

Application/Control Number: 10/581,123 Page 2

Art Unit: 3617

### **DETAILED ACTION**

1. An amendment was received from the applicant on October 5, 2009.

## Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 34-43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claim 34 recites the limitation "the nozzle position apparatus" in line 5. There is insufficient antecedent basis for this limitation in the claim. The applicant has provided antecedent basis for "a nozzle control apparatus" in line 3 of the claim.
- 5. On lines 5-6 of Claim 34, a method step is described as "setting a nozzle position command to a nozzle position apparatus command". It is unclear to the examiner how a "nozzle position command" and a "nozzle position apparatus command" differ from each other, since they appear to be identical commands if not the same command.

#### Allowable Subject Matter

6. Claims 1-33 and 44-59 are allowed.

Application/Control Number: 10/581,123 Page 3

Art Unit: 3617

7. Claims 34-43 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

### Response to Arguments

8. Applicant's arguments with respect to claims 34-43 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Application/Control Number: 10/581,123 Page 4

Art Unit: 3617

10. Any inquiry concerning this communication from the examiner should be directed to Exr. Lars Olson whose telephone number is (571) 272-6685.

lo

November 12, 2009

/Lars A Olson/

Primary Examiner, Art Unit 3617